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**United States Patent** [19]  
**Jones**

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[54] **EMISSIVE DISPLAY USING ORGANIC LIGHT EMITTING DIODES**  
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[58] **Field of Search** ..... 257/40, 98, 99, 257/103; 313/509, 500, 503, 506

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**ABSTRACT**

An organic light emitting device (“OLED”) for a color video display. The OLED is a layered structure formed on a substrate. A layer of light emitting organic material is sandwiched between two conductive layers and placed on the substrate. Overlying the conductors and organic layer is a transparent cover layer. The OLED of the present invention includes an innovative microcavity enhancing structure, which restricts light emission in directions parallel to the substrate and provides increased light output toward the viewer.

**24 Claims, 6 Drawing Sheets**

